

Table 1. Studies Included in the Systematic Review ^a						
Publication	n	Experiment Number ^b	Study Design	Sample	Psychedelic	Drug Comparator
Holze et al (2020) ²⁶	28		Double-blind within-subjects crossover	Healthy volunteers	LSD	Placebo, MDMA, and D-amphetamine
Holze et al (2019) ²⁷						
Wittmann et al (2007) ²⁸	12		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and different doses of psilocybin
Wackermann et al (2008) ²⁹		1				
Preller et al (2017) ³⁰	25		Double-blind within-subjects crossover	Healthy volunteers	LSD	Pretreatment with ketanserin. Treatment compared with placebo
Krahenmann et al (2017) ³¹						
Krahenmann et al (2017) ³²						
Preller et al (2018) ³³						
Preller et al (2018) ³⁴						
Barrett et al (2018) ³⁵						
Preller et al (2019) ³⁶						
Pokorny et al (2020) ³⁷						
Jaffe et al (1972) ³⁸	7		Double-blind between-subjects	Healthy psychotherapy patients	LSD	Placebo, dextroamphetamine
Jaffe et al (1973) ³⁹						
Dahlberg and Jaffe (1979) ⁴⁰						
Natale et al (1979) ⁴¹						
Mueller et al (2017) ⁴²	24		Double-blind within-subjects crossover	Healthy volunteers	LSD	Placebo
Dolder et al (2016) ⁴³		1				
Liechti et al (2017) ⁴⁴		1				
Dolder et al (2017) ⁴⁵						
Müller et al (2017) ⁴⁶						
Müller et al (2018) ⁴⁷						
Schmidt et al (2018) ⁴⁸						
Schmid et al (2015) ⁴⁹	16		Double-blind within-subjects crossover	Healthy volunteers	LSD	Placebo
Dolder et al (2016) ⁴³		2				
Stražhar et al (2016) ⁵⁰		2				
Liechti et al (2017) ⁴⁴						
Schmid and Liechti (2018) ⁵¹						
Strassman and Qualls (1994) ⁵²	12		Double-blind within-subjects crossover	Experienced hallucinogen users	DMT	Saline placebo and different doses of DMT
Strassman et al (1994) ⁵³						
Riba et al (2003) ⁵⁴	18		Double-blind within-subjects crossover	Experienced psychedelics users	DMT	Placebo, and different doses of ayahuasca
Riba, Anderer, et al (2002) ⁵⁵						
Riba et al (2002) ⁵⁶						
Ludwig and Levine (1965) ⁵⁷	70		Single-blind between subjects	"Post-narcotic drug addict inpatients"	LSD	
Levine and Ludwig (1965) ⁵⁸						Hypnosis; psychotherapy; hypnosis + psychotherapy with or without drug
Palhano-Fontes et al (2019) ⁵⁹	30		Double-blind between subjects	Treatment-resistant depression	Ayahuasca	Liquid mixture including zinc to produce gastrointestinal distress, designed to look and taste like ayahuasca
Zeifman et al (2019) ⁶⁰						
Galvão et al (2018) ⁶¹	71		Double-blind between subjects	Treatment-resistant depression and healthy controls	Ayahuasca	Placebo
Almeida et al (2019) ⁶²						
Smigelski, Kometer, et al (2019) ⁶³	40		Double-blind between subjects	Buddhist meditators	Psilocybin	Placebo
Smigelski, Scheidegger, et al (2019) ⁶⁴						
Yanakieva et al (2019) ⁶⁵	48		Double-blind between subjects	Healthy volunteers	LSD	Placebo and different doses of LSD
Family et al (2020) ⁶⁶						
Kometer et al (2012) ⁶⁷	17		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and ketanserin pretreatment
Kometer et al (2013) ⁶⁸		1				
Kometer et al (2015) ⁶⁹						
Pokorny et al (2016) ⁷⁰	40		Double-blind between subjects with within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and pretreatment with ergotamine and buspirone
Kometer et al (2015) ⁶⁹		2				
Kometer et al (2015) ⁶⁹		3				
Griffiths et al (2011) ⁷¹	18		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and different doses of psilocybin
Johnson et al (2012) ⁷²						
Gouzoulis-Mayfrank et al (2005) ⁷³	15		Double-blind within-subjects crossover	Healthy volunteers	DMT	Different doses of DMT vs S-ketamine
Gouzoulis-Mayfrank et al (2006) ⁷⁴						
Heekeren et al (2007) ⁷⁵						
Heekeren et al (2008) ⁷⁶						
Gouzoulis-Mayfrank et al (1999) ⁷⁷	32		Double-blind between-subjects	Healthy volunteers	Psilocybin	MDE, methamphetamine, placebo
Gouzoulis-Mayfrank et al (1998) ⁷⁸						
Gouzoulis-Mayfrank et al (1999) ⁷⁹						
Gouzoulis-Mayfrank et al (2002) ⁸⁰						
Krahenmann et al (2015) ⁸¹	25		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo
Grimm et al (2018) ⁸²						
Daumann et al (2008) ⁸³	14		Double-blind within-subjects crossover	Healthy volunteers	DMT	S-ketamine and placebo
Daumann et al (2010) ⁸⁴						
Carbonaro et al (2018) ⁸⁵	21		double-blind within-subjects crossover	Healthy volunteers	Psilocybin	DXM, placebo, different doses of psilocybin
Barrett et al (2018) ⁸⁶						
Bershad et al (2019) ⁸⁷	20		Double-blind within-subjects crossover	Healthy volunteers	LSD	Placebo and different doses of LSD
Bershad et al (2020) ⁸⁸						
Natale et al (1978) ⁸⁹	3		Double-blind within-subjects crossover	"Neurotic depressed" psychoanalytic outpatients	LSD	Dextroamphetamine 15 mg, placebo
Hollister et al (1962) ²⁵	4	1	Single-blind within-subjects crossover	Psychotherapy patients	Psilocybin	Placebo and different doses of psilocybin
Hollister et al (1962) ²⁵	18	2	Single-blind within-subjects crossover	Psychotherapy patients	Mescaline, psilocybin, and LSD	Mescaline, psilocybin, and LSD
Rosenberg et al (1964) ⁹⁰	6		Single-blind within-subjects crossover	Incarcerated former opiate addicts	DMT and 6-HDMT	Placebo; 6-HDMT
Vollenweider et al (1999) ⁹¹	7		Single-blind within-subjects crossover	Healthy volunteers	Psilocybin	Pretreatment with ketanserin, haloperidol, risperidone or placebo. Treatment compared with placebo
Netz et al (1963) ⁹²	8		Single-blind within-subjects crossover	Healthy volunteers	LSD	Placebo
Dolezal and Hausner (1968) ⁹³	8		Double-blind within-subjects crossover	"Neurotic inpatients"	LSD	Benactyzine 25 mg; phenmetrazine 10 mg SQ
Hasler et al (2004) ⁹⁴	8		Double-blind within-subjects crossover	Healthy volunteers (university and hospital staff)	Psilocybin	Placebo and different doses of psilocybin
Carter et al (2005) ⁹⁵	8		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and ketanserin
Moreno (2006) ⁹⁶	9		Double-blind within-subjects crossover	Obsessive-compulsive disorder	Psilocybin	Different doses of psilocybin
dos Santos et al (2007) ⁹⁷	9		Double-blind between-subjects with within-subjects crossover	Experienced long-term ayahuasca users	Ayahuasca	Placebo
Vollenweider et al (1998) ²⁴	10	1	Single-blind between-subjects with within-subjects crossover	Healthy volunteers	Psilocybin	Pretreatment with ketanserin, haloperidol, risperidone or placebo. Treatment compared with placebo
Vollenweider et al (1998) ²⁴	15	2	Single-blind between-subjects with within-subjects crossover	Healthy volunteers	Psilocybin	Pretreatment with ketanserin, treatment compared with placebo
Dos Santos et al (2011) ⁹⁸	10		Double-blind within-subjects crossover	Healthy volunteers	Ayahuasca	Placebo, d-amphetamine
Alonso et al (2015) ⁹⁹	10		Double-blind within-subjects crossover	Healthy volunteers	Ayahuasca	Placebo
Carter et al (2005) ¹⁰⁰	12		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and different doses of psilocybin
Grob et al (2011) ¹⁰¹	12		Double-blind within-subjects crossover	Patients with advanced cancer and anxiety	Psilocybin	Niacin 250 mg
Gasser et al (2014) ¹⁰²	12		Double-blind between-subjects	Patients with anxiety associated with life-threatening diseases	LSD	Low-dose LSD 20 µg
Valle et al (2016) ¹⁰³	12		Double-blind within-subjects crossover	Healthy volunteers	Ayahuasca	Pretreatment with ketanserin. Treatment compared with placebo
Strassman et al (1996) ¹⁰⁴	13		Double-blind within-subjects crossover	Healthy volunteers	DMT	IV saline
Riba et al (2006) ¹⁰⁵	15		Double-blind within-subjects crossover	Experienced psychedelics users	Ayahuasca	Placebo
Carhart-Harris et al (2012) ¹⁰⁶	15		Single-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo (IV saline)
Vollenweider et al (2007) ¹⁰⁷	16		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and different doses of psilocybin
Quednow et al (2012) ¹⁰⁸	16		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and ketanserin
Kometer et al (2011) ¹⁰⁹	17		Single-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo, different doses of psilocybin
Dos Santos et al (2012) ¹¹⁰	17		double-blind within-subjects crossover	Healthy volunteers	Ayahuasca	Placebo
Soskin et al (1973) ¹¹¹	18		Double-blind within-subjects crossover	"Alcoholics"	DPT	Inactive placebo IM
Umbrecht et al (2003) ¹¹²	18		Single-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo
Riba et al (2004) ¹¹³	18		Double-blind within-subjects crossover	Experienced psychedelic users	Ayahuasca	Placebo
Tagliazucchi et al (2016) ¹¹⁴	20		single-blind within-subjects crossover	Healthy volunteers	LSD	Placebo (IV saline)
Speth et al (2016) ¹¹⁵	20		Single-blind within-subjects crossover	Healthy volunteers	LSD	Saline placebo IV
Timmermann et al (2018) ¹¹⁶	20		Single-blind within-subjects crossover	Healthy volunteers	LSD	Placebo (IV saline)
Bravermanová et al (2018) ¹¹⁷	20		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo and d-amphetamine
Barbanjoj et al (2008) ¹¹⁸	22		Double-blind within-subjects crossover	Healthy volunteers	Ayahuasca	Placebo and d-amphetamine
Preller et al (2020) ¹¹⁹	23		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo
Soskin (1973) ²¹	28		Double-blind between subjects	"Psychosomatic" and "nondysphoric inpatients"	LSD	Chlordiazepoxide 25 mg and methylphenidate 25 mg
Ross et al (2016) ⁵	29		Double-blind between subjects with within-subjects crossover	Anxiety and depression in cancer	Psilocybin	Niacin 250 mg (active placebo)
Preller et al (2016) ¹²⁰	29		Double-blind between subjects with within-subjects crossover	Healthy volunteers	Psilocybin	Placebo
Smart et al (1966) ¹²¹	30		double-blind between-subjects	"Alcoholics"	LSD	Ephedrine 60 mg
Bernasconi et al (2014) ¹²²	30		Double-blind within-subjects crossover	Healthy volunteers	Psilocybin	Placebo
Zegans (1967) ¹²³	31		Single-blind between subjects	Healthy volunteers	LSD	Placebo
Wikler et al (1965) ¹²⁴	33		Single-blind within-subjects crossover	"Postaddicts"	LSD	Placebo IM, morphine IM, pentobarbital IM, amphetamine IM
Pokorny et al (2017) ¹²⁵	33		Double-blind within-subjects crossover	Healthy volunteers		